DOCKET NO.: NIHA-0194/E-307-2002/0-US-03
PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re Application of:

George Janini, et al. **Confirmation No.: 9010**

Application No.: 10/529,967 **Group Art Unit: Not Yet Assigned**

Filing Date: September 15, 2005 **Examiner: Not Yet Assigned**

For: CONTIGUOUS CAPILLARY ELECTROSPRAY SOURCES AND ANALYTICAL DEVICE

DATE OF DEPOSIT: January 16, 2006

I HEREBY CERTIFY THAT THIS PAPER IS BEING DEPOSITED WITH THE UNITED STATES POSTAL SERVICE AS FIRST CLASS MAIL, POSTAGE PREPAID, ON THE DATE INDICATED ABOVE AND IS ADDRESSED TO THE UNITED STATES PATENT AND TRADEMARK OFFICE, P.O. BOX 1450, ALEXANDRIA, VA 22313-1450.

Elizabeth A. McLoud

TYPED NAME: Elizabeth A. McLoud

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Dear Sir:

INFORMATION DISCLOSURE STATEMENT

Pursuant to 37 CFR § 1.56 and in accordance with 37 CFR §§ 1.97-1.98, information relating to the above-identified application is hereby disclosed. Inclusion of information in this statement is not to be construed as an admission that this information is material as that term is defined in 37 CFR § 1.56(b).

☒ In accordance with § 1.97(b), since this Information Disclosure Statement is being filed either within three months of the filing date of the above-identified

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application, within three months of the date of entry into the national stage of the above identified application as set forth in § 1.491, before the mailing date of a first Office Action on the merits of the above-identified application, or before the mailing date of a first Office Action after the filing of request for continued examination under § 1.114, no additional fee is required.

☐ In accordance with § 1.97(c), this Information Disclosure Statement is being filed after the period set forth in § 1.97(b) above but before the mailing date of either a Final Action under § 1.116 or a Notice of Allowance under § 1.311, or before an action that otherwise closes prosecution in the application, therefore:

- ☐ Certification in Accordance with § 1.97(e) is attached; or
- ☐ The fee of **$180.00** as set forth in § 1.17(p) is attached.

☐ In accordance with § 1.97(d), this Information Disclosure Statement is being filed after the mailing date of either a Final Action under § 1.113 or a Notice of Allowance under § 1.311 but before, or simultaneously with, the payment of the Issue Fee, therefore included are: Certification in Accordance with § 1.97(e); and the submission fee of **$180.00** as set forth in § 1.17(p).

☒ Copies of reference numbers **1 – 69 and 151 - 171** listed on the attached Form PTO-1449 are enclosed herewith.

☒ Copies of reference numbers **70 - 150** on the attached Form PTO 1449 are not required to be submitted pursuant to 37 CFR § 1.98(a)(2)(i).

☐ Copies of references - are not being submitted because they were previously cited by or submitted to the U.S. Patent and Trademark Office in patent application number , filed for

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which a claim for priority under 35 U.S.C. § 120 has been made in the instant application.

☐ The relevance of those listed references which are not in the English language is as follows:

There are no listed references which are not in the English language.

Please charge any deficiency or credit any overpayment to Deposit Account No. 23-3050. This form is submitted in duplicate.

Date: January 16, 2006

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/A.S./	**1**	Barraso, M.B., et al., "Sheathless preconcentration-capillary zone electrophoresis-mass spectrometry applied to peptide analysis," *J. Am. Soc. Mass Spectrom.*, **1999**, *10*, 1271-1278
	2	Cao, P., et al., "Analysis of peptides, proteins, protein digests, and whole human blood by capillary electrophoresis/electrospray ionization-mass spectrometry using an in-capillary electrode sheathless interface," *J. Am. Soc. Mass Spectrom.*, **1998**, *9*, 1081-1088
	3	Chang, Y.Z., et al., "Sheathless capillary electrophoresis/electrospray mass spectrometry using a carbon-coated fused-silica capillary," *Anal. Chem.*, **2000**, *72*, 626-630
	4	Chaudhary, T., "Nanospray on the thermo finnigan LCQ™; Peptide and Protein Analysis," *Thermo Finnigan LC/MS Application Report*, **1999**, 8 pages
	5	"Choosing the right tip: Step 2; I am looking for PicoTips for online nanospray, microspray and LC-MS" *New Objective,* http://www.newobjective.com/technical/right_tip2.html, **2002**, 2 pages
	6	"Choosing the right tip: Step 2; I am looking for PicoTips for offline, static nanospray" *New Objective, Inc.*, http://www.newobjective.com/technical/right_tip3.html, **2002**, 2 pages
	7	"Choosing the right tip: Step 3," *New Objective, Inc.*, http://www.newobjective.com/technical/right_tip4.html, **2002**, 2 pages
	8	"Continuous-flow nanospray & LC-MS," *New Objective, Inc.*, http://www.newobjective.com/products/silicatips.html, **2002**, 2 pages
	9	Ding, J., et al., "Recent developments in interfaces and applications," *Analytical Chem. News & Features*, **1999**, *71*, 378A – 385A
/A.S./	**10**	Ericsson, L., et al., "Interfacing capillary electrophoresis and mass spectrometry," *Summary of the ABRF Symposium at the 1996 Protein Society Meeting*, **1996**, http://www.abrf.org/ABRFNews/1996/December1996/CEMS.html, 6 pages

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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	Confirmation No. Not Yet Assigned	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/A.S./	**11**	"ESI Resources; Bibliography," *New Objective, Inc.*, http://www.newobjective.com/resources/bibliography.html, **2002**, 5 pages
	12	Fang, L., et al., "On-line time-of-flight mass spectrometric analysis of peptides separated by capillary electrophoresis," *Anal. Chem.*, **1994**, *66*, 3696-3701
	13	Fathollahi, B., "The 13th Annual Frederick Conference on Capillary Electrophoresis," *National Cancer Institute at Frederick*, http://web.ncifcrf.gov/events/ce_conference/course.asp, October 21-23, **2002**, 3 pages
	14	Figeys, D., et al., "Protein indentification by capillary zone electrophoresis/mecroelectrospray ionization-tandem mass spectrometry at the subfemtomole level," *Anal. Chem.*, **1996**, *68*, 1822-1828
	15	Figeys, D., et al., "Protein identification by solid phse microextraction-capillary zone electrophoresis-microelectrospray-tandem mass spectrometry," *Nature Biotechnol.*, **1996**, *14*, 1579-1583
	16	Fuchs, O., "Solvents and non-solvents for polymers," The Polymer Handbook, 3rd Ed., *Wiley Interscience*, Brandrup, et al. (Eds.), **1989**, 379-407
	17	Gelpi, E., et al., "Interfaces for coupled liquid-phase separation/mass spectrometry techniques. An update on recent developments," *J. Mass Spectrum.*, **2002**, *37*, 241-253
	18	Guzman, N.A., et al., "New directions for concentration sensitivity enhancement in CE and microchip technology," *LC/GC Europe*, **2001**, 1-9
	19	Hu, S., et al., "Amperometric detection in capillary electrophoresis with an etched joint," *Anal. Chem.*, **1997**, *69*, 264-267
/A.S./	**20**	Huber, C.G., et al., "Comparison of CE-ESI-MS and HPLC-ESI-MS for the analysis of proteins," *Poster Presentation at the 23st International Symposium on High Performance Liquid Phase Separations and Related Techniques*, **1999**, 2 pages http://web.archive.org/web/20001014145328/http://info.uibk.ac.at/c/c7/c725/, 2 pages

EXAMINER	/Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/A.S./	**21**	Huber, C.G., et al., "Evaluation of volatile eluents and electrolytes for high-performance liquid chromatography-electrospray ionization mass spectrometry and capillary electrophoresis-electrospray ionization mass spectrometry of proteins. I. Liquid chromatography," *J. Chromatogr. A*, **1999**, *849(1)*, 161-173, http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids, 1 page
	22	Huber, C.G., et al., "Evaluation of volatile eluents and electrolytes for high-performance liquid chromatography-electrospray ionization mass spectrometry and capillary electrophoresis-electrospray ionization mass spectrometry of proteins. II. Capillary eletrophoresis," *J. Chromatogr. A*, **1999**, *849(1)*, 175-189 http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids, 2 pages
	23	Kelly, J.F., et al., "Capillary zone electrophoresis-electrospray mass spectrometry at submicroliter flow rates: practical considerations and analytical performance," *Anal. Chem.*, **1997**, *69*, 51-60
	24	Kertesz, V., et al., "Minimizing analyte electrolysis in an electrospray emitter," *J. Mass Spectrometry*, **2001**, *36*, 204-210
	25	Lazar,J.M., et al., "Microchip ESI source for capillary electrophoresis time-of-flight mass spectrometry," http://www.ornl.gov/divisions/casd/obms/asmsabs99/lazar.pdf, **1999**, 2 pages
	26	LCQ Deca XP Plus, "Improved ion optics for greater sensitivity and precision," *ThermoFinnigan*, **2002**, 4 pages
	27	"LCQ™Deca XP plus," *Thermo Finnigan*, http://www.thermo.com/eThermo/CDA/Products/Product_Detail/1,1075,10556-113,00.html and http://www.thermo.com/eThomo/CDA/Products/Product_Popup_Window/1,1088,10556-11, **2001**, 3 pages
	28	"LCQ™ Nanospray Ion Source," *ThermoFinnigan*, http://www.thermo.com/eThermo/CDA/Products/Product_Detail/1,1075,15857-113-X--,00.html, **2001**, 1 page
	29	"LCQ Ion Trap Animation Downloads," *Thermo Finnigan*, http://www.thermo.com/eThermo/CDA/Technology/Technology_Detail/1,1213,113-113,00.html, **2001**, 2 pages
/A.S./	**30**	Lee, E.D., et al., "Liquid junction coupling for capillary zone electrophoresis/ion spray mass spectrometry," *Biomedical & Environmental Mass Spectrometry*, **1989**, *18*, 844-850

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

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	Confirmation No. Not Yet Assigned	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/A.S./	**31**	Mazereeuw, M., et al., "A novel sheathless and electrodeless microelectrospray interface for the on-line coupling of capillary zone electrophoresis to mass spectrometry,"*Rapid Communications in Mass* Spectrometry, **1997**, *11*, 981-986
	32	Maziarz, E.P., et al., "Polyaniline: a conductive polymer coating for durable nanospray emitters," *J. Am. Soc. Mass Spectrom.*, **2000**, *11*, 659-663
	33	"Microspray flow rates," *New Objective, Inc.*, http://www.newobjective.com/products/tapertips.htlm, **2002**, 1 page
	34	Moini, M., "Capillary electrophoresis mass spectrometry and its application to the analysis of biological mixtures," *Anal. And Bioanal. Chem.*, **2002**, *373*, 466-480
	35	Moini, M., et al., "Analysis of carbonic anhydrase in human red blood cells using capillary electrophoresis/electrospray ionization-mass spectrometry," *Anal. Chem.*, **2002**, *74*, 3772-3776
	36	Moini, M., et al., "Design and performance of a universal sheathless capillary electrophoresis to mass spectrometry interface using a split-flow technique," *Anal. Chem.*, **2001**, *73*, 3497-3501
	37	Moseley, M.A., et al., "Coupling of capillary zone electrophoresis and apillary liquid chromatography with coaxial continuous-flow fast atom bombardment tandem sector mass spectrometry," *J. Chromatog.*, **1989**, *480*, 197-209
	38	NanoSpray Ion Source and NanoFlow Solution Kit, "Hardware and consumables for low-volume analyses," *ThermoFinnigan*, http://www.thermo.com/eThermo/CMA/Images/Product/productImg_16684.jpg, **2001**, 5 pages
	39	"New LCQ™ DECA XP Ion Trap LC/MSn," *Thermo Finnigan*, **2001**, http://www.thermo.com/eThermo/CDA/News/News_Detail/0,1247,10555-113,00.html," 1 page
/A.S./	**40**	Nilsson, S., "Avdelningen för analytisk kemi," http://216.239.53.100/search?q=cache:iL5dwY6FoewC:www.analytisk.kemi.uu.se/Personal, **2001**, 3 pages

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
/A.S./	**41**	Olivares, J.A., et al., "On-line mass spectrometric detection for capillary zone electrophoresis," *Anal. Chem.*, **1987**, *59*, 1230-1232
	42	"Online: Pricofrit™ tips self-pack: Perfect for proteomics," http://www.newobjective.com/products/picofrit_selfpack.html, **2002**, 1 page
	43	Petersson, M.A., et al., "New sheathless interface for coupling capillary electrophoresis to electrospray mass spectrometry evaluated by the analysis of fatty acids and prostaglandins," *J. Chromatogr. A*, **1999**, *854*, 141-154
	44	PicoTips™ for static nanospray," *New Objective, Inc.*, http://www.newobjective.com/products/picotips_offl_index.html, **2002**, 2 pages
	45	Polyimide Removal, "Polyimide removal from silica fibers or tubes," *Polymicro Technologies, LLC*, http://www.polymicro.com/pioff.htm, **2001**, 3 pages
	46	Preisler, J., et al., "On-line MALDI-TOF MS using a continuous vacuum deposition interface," *Anal. Chem.*, **1988**, *70*, 5278-5287
	47	Premstaller, A., et al., "High-performance liquid chromatography-electrospray ionizsation mass spectrometry of single- and double-stranded nucleic acids using monolithic capillary columns," *Anal. Chem.*, **2000**, *72(18)*, 4386-4393, http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=PubMed&list_uids, 2 pages
	48	Premstaller, A., "DNA variation and function," *Publication List*, http://insertion.stanford.edu/curr_vitae/premstaller_pub.html, May 15, **2002**, 3 pages
	49	"Proteomics & Picofrit™ columns," *New Objective, Inc.*, http://www.newobjective.com/products/picofrit_index.html, **2002**, 1 page
/A.S./	**50**	"Proteomics & Picofrit™ columns: Packed nanobore columns," *New Objective, Inc.*, http://www.newobjective.com/products/picfrit_packed.html, **2002**, 2 pages

EXAMINER	/Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
/A.S./	**51**	Ross, G.A., "Capillary electrophoresis-mass spectrometry: practical implementation and applications," *Agilent Technologies*, **2001**, 6 pages
	52	Samskok, J., et al., "Optimization of capillary electrophoresis conditions for coupling to a mass spectrometer via a sheathless interface," *J. of Mass Spectrum.*, **2000**, *35*, 919-924
	53	Sedlak, B.J., "Miniaturization technology; New devices help scientists with research and development," *Genetic Engineering News*, **2003**, *23(7)*, pages 1 and 62
	54	Serwe, M., et al., "A comparison of CE-MS and LC-MS for peptide samples," Agilent Technologies, **2000**, 6 pages
	55	Severs, J.C., et al., "Characterization of the microdialysis junction interface for capillary electrophoresis/microelectrospray ionization mass spectrometry," *Anal. Chem.*, **1997**, *69*, 2154-2158
	56	Shen, Y., et al., "High efficiency nanoscale liquid chromatography coupled on-line with mass spectrometry using nanoelectrospray ionization for proteomics," *Analytical Chem.*, **2002**, *74(16)*, 4235-4249
	57	Smith, A.D., et al., "Control of electrochemical reactions at the capillary electrophoresis outlet/electrospray emitter electrode under CE/ESI-MS through the application of redox buffers," *Anal. Chem.*, **2001**, *73*, 240-246
	58	Smith, R.D., et al., "Improved electrospray ionization interface for capillary zone electrophoresis-mass spectrometry," *Anal. Chem.*, **1988**, *60*, 1948-1952
	59	Smith, R.D., et al., "Capillary zone electrophoresis-mass spectrometry using an electrospray ionization interface," *Anal. Chem.*, **1988**, *60*, 436-441
/A.S./	**60**	Soo, E.C., et al., "The application of CE-ESI-MS to metabolomics: probing the biosynthesis of pseudaminic acid and its analogues on campylobacter jejui flagellin," *NRC Institute for Biological Sciences*, http://ibs-isb.nrc-cnrc.gc.ca/ibs/facilities/spectrometry_evelyn_e.html, November 24, **2004**, 1-8
EXAMINER	/Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

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Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

/A.S./	**61**	"Thermo Finnigan and new objective team up to simplify nanospray for proteomics," http://www.thermo.com/eThermo/CDA/News/News_Detail/0,1247,10649-113,00.html, June 20, **2001**, 2 pages
	62	Tong, W., et al., "Identification of proteins in complexes by solid-phase microextraction/multistep elution/capillary electrophoresis/tandem mass spectrometry," *Anal. Chem.*, **1999**, *71*, 2270-2278
	63	Tong, W., et al., "Sensitive and high resolution CE/MS/MS for protein identification in complex mixtures," *Chromatographia Supplement*, **2001**, *53*, S90 S99
	64	Wahl, J.H., et al., "Sheathless capillary electrophoresis electrospray ionization mass spectrometry using 10 mu m Id capillaries – analyses of Tryptic Digests of Cytochrome C," *J. Chrom. A*, **1994**, *659*, 217-222 (Abstract, 1 page)
	65	Wang, X.-Q., et al., "Polymer-based electrospray chips for mass spectrometry," *California Institute of Technology, Pasadena, CA*, 12th IEEE Int. Conf. on Micro Electro..., MEMS'99, **1999**, 6 pages
	66	Wei, W., et al., "On-line concentration of proteins and peptides in capillary zone electrophoresis with an etched porous joint," *Anal. Chem.*, **2002**, *74*, 3899-3905
	67	"What does NCBI do?," *National Center for Biotechnology Information*, http://www.ncbi.nih.gov, News available online May **2005**, 2 pages
	68	"What is electrospray?," *New Objective, Inc.*, http://www.newobjective.com/electrospray/index.htlm, **2002**, 3 pages
/A.S./	**69**	Wilm, M., et al., "Analytical properties of the nanoelectrospray ion source," *Anal. Chem.*, **1996**, *68*, 1-8

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
/A.S./	**70**	RE. 34,757	10/18/94	Smith, et al.	204	299 R
	71	RE. 35,102	11/28/95	Zare, et al.	204	180.1
	72	RE 36,892	10/03/00	Apffel, Jr., et al.	250	288
	73	4,708,782	11/24/87	Andresen, et al.	204	299 R
	74	4,908,116	03/13/90	Zare, et al.	204	299 R
	75	4,994,165	02/19/91	Lee, et al.	204	299R
	76	4,995,231	02/26/91	Smith, et al.	60	203.1
	77	5,073,713	12/17/91	Smith, et al.	250	282
	78	5,158,704	10/27/92	Fulton, et al.	252	309
	79	5,175,996	01/05/93	Smith	60	203.1
	80	5,192,865	03/09/93	Zhu	250	288
	81	5,238,671	08/24/93	Matson, et al.	423	397
	82	5,245,185	09/14/93	Busch, et al.	250	288
	83	5,245,186	09/14/93	Chait, et al.	250	288
/A.S./	**84**	5,266,205	11/30/93	Fulton, et al.	210	639
EXAMINER		/Andrew Smyth/ (07/24/2008)		**DATE CONSIDERED**		

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
/A.S./	**85**	5,267,584	12/07/93	Smith	137	13
	86	5,423,964	06/13/95	Smith, et al.	204	180.1
	87	5,439,578	08/08/95	Dovichi, et al.	204	299 R
	88	5,495,108	02/27/96	Apffel, Jr., et al.	250	288
	89	5,504,329	04/02/96	Mann, et al.	250	288
	90	5,505,832	04/09/96	Laukien, et al.	204	452
	91	5,523,566	06/04/96	Fuerstenau, et al.	250	282
	92	5,545,304	08/13/96	Smith, et al.	204	603
	93	5,571,398	11/05/96	Karger, et al.	204	603
	94	5,580,434	12/03/96	Robotti, et al.	204	451
	95	5,587,582	12/24/96	Henion, et al.	250	288
	96	5,750,988	05/12/98	Apffel, et al.	250	288
	97	5,788,166	08/04/98	Valaskovic, et al.	239	708
	98	5,834,772	11/10/98	Baumgardner, et al.	250	288
	99	5,840,388	11/24/98	Karger, et al.	428	26.91
	100	5,856,671	01/05/99	Henion, et al.	250	288
	101	5,868,322	02/09/99	Loucks, Jr., et al.	239	418
/A.S./	**102**	5,877,495	03/02/99	Takada, et al.	250	288
EXAMINER		/Andrew Smyth/ (07/24/2008)		**DATE CONSIDERED**		

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U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
/A.S./	**103**	5,879,949	03/09/99	Cole, et al.	436	173
	104	5,898,175	04/27/99	Hirabayashi, et al.	250	288
	105	5,954,959	09/21/99	Smith, et al.	210	321.78
	106	5,975,426	11/02/99	Myers	239	3
	107	5,993,633	11/30/99	Smith, et al.	204	601
	108	5,997,746	12/07/99	Valaskovic	210	656
	109	6,054,709	04/25/00	Douglas, et al.	250	288
	110	6,068,749	05/30/00	Karger, et al.	204	452
	111	6,107,628	08/22/00	Smith, et al.	250	292
	112	6,110,343	08/29/00	Ramsey, et al.	204	601
	113	6,114,693	09/05/00	Hirabayashi, et al.	250	288
	114	6,147,347	11/14/00	Hirabayashi, et al.	250	288
	115	6,187,190 B1	02/13/01	Smith, et al.	210	321.78
	116	6,188,065 B1	02/13/01	Takada, et al.	250	288
	117	6,190,559 B1	02/20/01	Valaskovic	210	656
	118	6,207,954 B1	03/27/01	Andrien, Jr., et al.	250	288
	119	6,231,737 B1	05/15/01	Ramsey, et al.	204	451
/A.S./	**120**	6,297,499 B1	10/02/01	Fenn	250	288

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
	Applicant George Janini, et al.	
	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
/A.S./	**121**	6,333,088 B1	12/25/01	Le Febre, et al.	428	36.91
	122	6,335,525 B1	01/01/02	Takada, et al.	250	288
	123	6,372,353 B2	04/16/02	Karger, et al.	428	447
	124	6,379,971 B1	04/30/02	Schneider, et al.	436	89
	125	6,384,411 B1	05/07/02	Hirabayashi, et al.	250	288
	126	6,596,988 B2	07/22/03	Corso, et al.	250	288
	127	2001/0000752 A1	05/03/01	Feranzen	435	91.2
	128	2001/0010338 A1	08/02/01	Ganan-Calvo	239	8
	129	2001/0042793 A1	11/22/01	Ganan-Calvo	239	8
	130	2002/0003209 A1	01/10/02	Wood, et al.	250	282
	131	2002/0011560 A1	01/31/02	Sheehan, et al.	250	283
	132	2002/0013298 A1	01/31/02	Hunter	514	113
	133	2002/0017487 A1	02/14/02	Huang	210	635
	134	2002/0019023 A1	02/14/02	Dasseux, et al.	435	40
	135	2002/0019518 A1	02/14/02	Hansen	530	388.4
	136	2002/0037532 A1	03/28/02	Regneier, et al.	435	7.1
	137	2002/0037919 A1	03/28/02	Hunter	514	449
/A.S./	**138**	2002/0052005 A1	05/02/02	Hansen	435	7.1

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

U. S. PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Name	Class	Subclass
/A.S./	**139**	2002/0052404 A1	05/02/02	Hunter, et al.	514	449
	140	2002/0055184 A1	05/09/02	Naylor, et al.	436	514
	141	2002/0060288 A1	05/23/02	Hughey, et al.	250	281
	142	2002/0066857 A1	06/06/02	Hughey, et al.	250	281
	143	2002/0072126 A1	06/13/02	Chervet, et al.	436	161
	144	2002/0100714 A1	08/01/02	Staats	210	85
	145	2002/0110919 A1	08/15/02	Wienkers, et al.	436	56
	146	2002/0119202 A1	08/29/02	Hunter, et al.	424	501
	147	2002/0119505 A1	08/29/02	Goshe, et al.	435	7.92
	148	2002/0121444 A1	09/05/02	Lee, et al.	204	613
	149	2002/0121598 A1	09/05/02	Park	250	288
/A.S./	**150**	2003/0089601A1	05/15/03	Ding, et al.	204	298.2

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
	Applicant George Janini, et al.	
	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

FOREIGN PATENT DOCUMENTS

Examiner Initial		Document No.	Date	Country	Translation YES	Translation NO
/A.S./	**151**	WO 96/33405 A1	10/24/96	PCT		
	152	WO 98/35226 A1	08/13/98	PCT		
	153	WO 01/61338 A1	08/23/01	PCT		
	154	WO 01/91158 A2	11/29/02	PCT		
	155	WO 01/99158 A2	11/29/01	PCT		
/A.S./	**156**	WO 2004/038752 A3	05/06/04	PCT		

EXAMINER /Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
/A.S./	**157**	"Application note PF-1," *New Objective, Inc.*, www.newobjective.com, downloaded from Internet October 2002, 2 pages
	158	Ashcroft, A.E., "An introduction to mass spectrometry," *Mass Spectrometry*, http://www.astbury.leeds.ac.uk/Facil/MStut/mstutorial.htm, , downloaded from Internet October 14, **2002**, 1-25
	159	"Capillary electrophoresis theory and background," *CE Theory*, http://www.ceandcec.com/cetheory.htm, downloaded from Internet September 16, **2002**, 21 pages
	160	"CE-MS," www.agilent.com, downloaded from Internet September 16, **2002**, 3 pages
	161	"Electrospray tips from new objective," *Scientific Instrument Services, Inc.*, http://www.sisweb.com/lc/new-objective/picofrit.htm, downloaded from the Internet April 4, **2003**, 2 pages
	162	"Electrospray ion trap mass spectrometry; Introduction," http://www.colby.edu/chemistry/instruments/ElectrosprayIntro.pdf , last modified on Internet September 11, **2001**, 5 pages
	163	"Flexible fused silica capillary tubing," http://www.polymicro.com/images/tubepage.jpg, downloaded from the Internet September 14, **2002**, 1 page
	164	"Life sciences/chemical analysis," *Agilent Technologies*, http://www.chem.agilent.com/scripts/peakprint.asp?Page=1169, downloaded from the Internet October 14, **2005**, 1 page
	165	Liu, H., et al., "A 96-channel microdevice for high throughput electrospray ionization mass spectrometry (ESI/MS)," *The Barnett Institute,* no date available, http://www.geocities.com/ResearchTriangle/Lab/4688/ht-ms.html, downloaded from the Internet October 14, **2005**, 1-13
	166	McComb, et al., "Biomolecule characterization by CE-ESI/TOFMS and CE-ESI/MS/MS," http://www.physics.umanitoba.ca/~ens/McComb_CE.pdf , downloaded from the Internet **2002**, 2 pages
/A.S./	**167**	Murphy, J.P., III, et al., "Improved nanospray emitter coatings for nanospray LC-MS," http://www.newobjective.com, downloaded from the Internet **2002**, 2 pages
EXAMINER	/Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./

Form PTO-1449 Modified List of Patent and Publications Cited by Applicant (Use several sheets if necessary) U.S. Department of Commerce Patent and Trademark Office	Docket No. NIHA-0194/ E-307-2002/0-US-03	Application No. 10/529,967
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	Filing Date September 15, 2005	Group Not Yet Assigned
	Confirmation No. Not Yet Assigned	

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)		
/A.S./	**168**	Nanobore gradient LC/MS and MS/MS using POROS® packed picoFrit™ emitters for femtomole sensitivity peptide analysis," *New Objective*, www.newobjective.com, downloaded from the Internet **2002**, 2 pages
/A.S./	**169**	"Nanospray on the Thermo Finnigan LCQ," *ThermoFinnigan*, http://www.thermo.com/eThermo/CDA/Applications/Application_Detail/1,1210,PREVIEW-10125-113,00.html, downloaded from the Internet September 14, **2002**, 2 pages
/A.S./	**170**	Schmidt, A., et al., "Effect of flow rates on analyte ion signals in nano-ESI MS," *Institute for Pharmaceutical Chem., Germany*, no date available, http://www.iachem.de/MPL372.pdf , downloaded from the Internet **2002**, 2 pages
/A.S./	**171**	"Technical Note PF-3; Using PicoFrit columns with the micromass Z-spray™ Nanoflow™ stage" *New Objective, Inc.*, www.newobjective.com, downloaded from the Internet **2002**, 2 pages

EXAMINER	/Andrew Smyth/ (07/24/2008)	**DATE CONSIDERED**

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /A.S./